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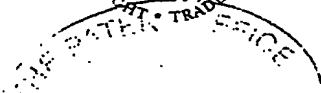
Signed

*Andrew Gensay*

Dated

17 February 2003

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# Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road  
Newport  
South Wales  
NP10 8QQ

28 JAN 2001

1. Your reference shelving unit

29JAN02 E691406-1 C81447

2. Patent application number  
(The Patent Office will fill in this part)

**0201908.1**

P01/7700 D.00-0201908.1

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Charles Daniel & Deborah Daniel  
13 OAKMEAD GARDENS  
EDGWARE  
MIDDX  
HA8 9RW

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

8312993001

8313007001

4. Title of the invention

shelving unit

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

AS ABOVE

Patents ADP number (if you know it)

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number  
(if you know it)

Date of filing  
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing  
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

NO

- a) any applicant named in part 3 is not an inventor, or
  - b) there is an inventor who is not named as an applicant, or
  - c) any named applicant is a corporate body.
- See note (d))

**Patents Form 1/77**

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description 3

Claim(s)

Abstract

Drawing(s) 3+3 1/4

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination and search (*Patents Form 9/77*)

Request for substantive examination (*Patents Form 10/77*)

Any other documents  
(*please specify*)

11. I/We request the grant of a patent on the basis of this application.

Signature [Signature]

Date 28.1.02

12. Name and daytime telephone number of person to contact in the United Kingdom 0208 906 4343

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## SHELVING UNITS

The invention relates to shelving units.

Shelving units are built by shelving manufactures, which create box like units, out of various materials. Often shelving units are required to be lit. Under these circumstances the shelving unit would have lighting fixtures fitted to it, requiring the shelving unit to have holes drilled into it, and wires to be run over and through the unit and connected to a power point.

The lighting for each shelf would have to be pre designated, light fittings would have to be externally mounted onto the shelving units, or the prefabricated shelving units would have to be adapted and light fittings recessed into them, and fitted into that position where they would remain for the life of the shelving unit.

Each section of shelving would have to be independently wired in this manner. The shelves would be difficult to fit, as the numerous wires running behind the units all need to be joined and connected to the power point.

Once the lighting has been fitted to the shelving unit, the shelving unit becomes static. In that the design is then established, and alteration to the dimensions of the shelving then become very difficult. Even in the most flexible of shelving designs, where because the lighting fittings have been permanently fixed into position, alteration to the position of the shelves would become a difficult task.

Where shelving is used to display commercial products, a change in position of the products would usually lead to new shelving, as it would be too complicated to rearrange and re wire existing shelving. Even a change of lighting effect to a shelf would be a difficult task, as the lighting is permanently positioned onto or above the shelving unit.

The expense involved in producing a shelf, then of installing lighting into the shelf, and then the added expense of wiring it on site, is a lengthy and complicated procedure.

According to the present invention, a tracking system is placed around a light source, both systems are then embodied into a tube. These tubes can be joined together to allow the continual conductivity of electricity through the tubes, to light up the light sources. The tubes have slits cut into them, the slits allow the light source to shine through, and allow additional light sources to access the tracking system and illuminate, the slits also house the shelving panels. Thus, the tubes are used to build a shelving unit to any design.

which would pre incorporate a lighting system, into the tubing structures, that are used to build the shelves.

Electricity would flow through the tubing components used to build the shelving frame, ~~allowing the shelving unit to be lit without the need to wire additional lighting systems into and onto the shelving structure; as the lighting system has already been pre-incorporated into the tubes.~~

The invention enables the user to alter the shelving design, without the need to reposition, reorganize and rewire the lighting systems.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawings in which; -

- Figure 1 Shows a cross section inside a tubing unit.
- Figure 2 Shows the external housing of the tubing unit.
- Figure 3 Shows how the tubes can be built to form a shelving unit.
- Figure 4 Shows accessories that can be attached to the tubes.

#### Figure 1 & 2

Referring to the drawings a light source (a) would be encompassed by a tracking system (b), both of which would be embodied in a tube (c).

Slits (d), would be cut into the tubing (c), the slits (d), would allow the lighting source (a) to shine through, (shinning light is represented by (e).)

#### Figure 3

Shelving panels (g), may be housed in slits (d). The tubes can be joined together using joining components (f). Using this method, a shelving unit of any design may be constructed.

The tubing system (c) would be manufactured to various sizes, and could be easily joined together, using various joining systems (f), thus, initially building, for example, a box shape.

This could then be built up in height, or along in length, by building additional adjoining box shapes.

During assembly shelving pieces, and/or panels (g), could be slotted into position, at varying positions and angles. Lighting (e), would then illuminate the shelves.

There would be one single power lead (not illustrated) for the entire structure to connect to the power source.

#### Figure 4

Furthermore, the slits (d) would also allow further light fittings (h) to engage the tracking system (b), for an optional, additional lighting effect.

Coloured or optical filters (i), maybe fitted into slits (d), this would colour the light emitted from (a).

Light blocks (j), maybe fitted into slits (d), to block out the light emitted through (d).

Labeling tags (k), maybe fitted into slits (d), to help label products on the shelves.

In general the tubes would be linked together, housing the shelving panels (g), and a shelving unit constructed, with an integral lighting effect automatically in position.. Accessories (h), (i), (j), (k), could then be placed into the slots (d) to create the desired lighting effects on the shelving panels (g).

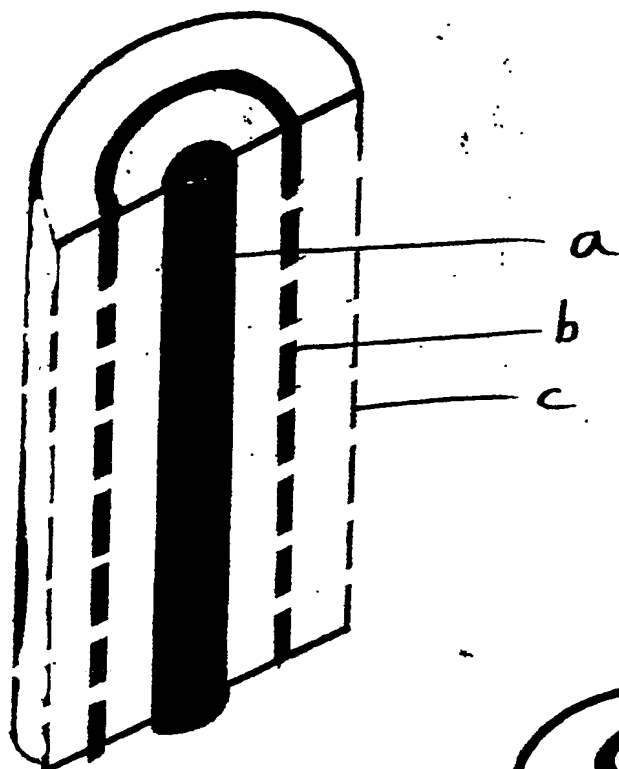


Figure 1

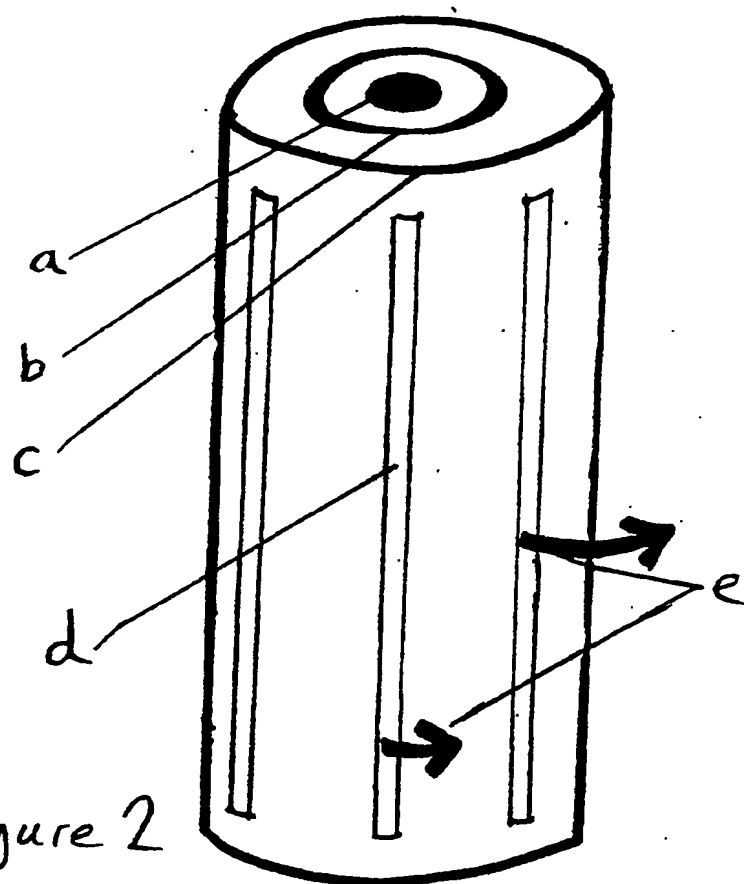


Figure 2

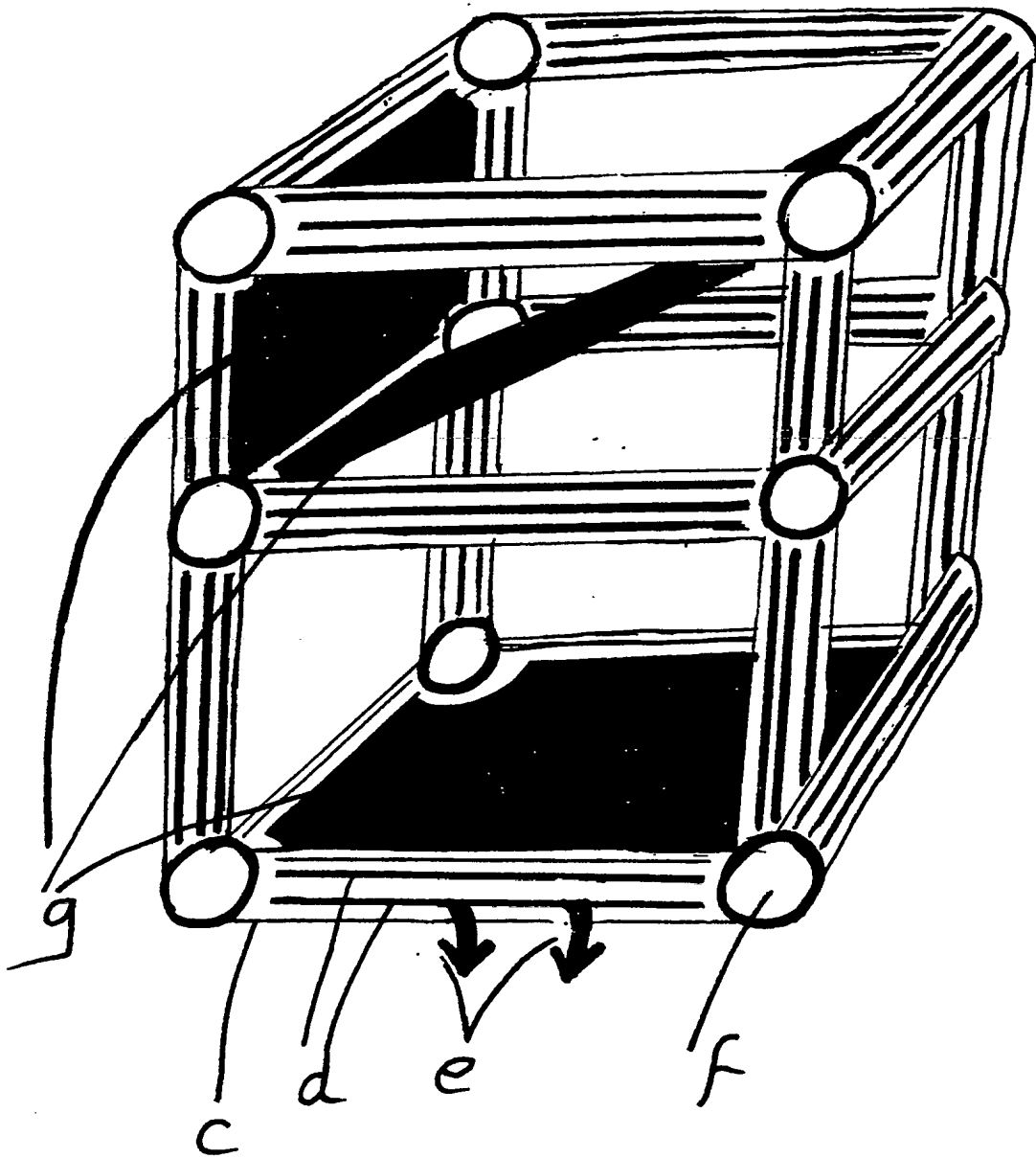


Figure 3



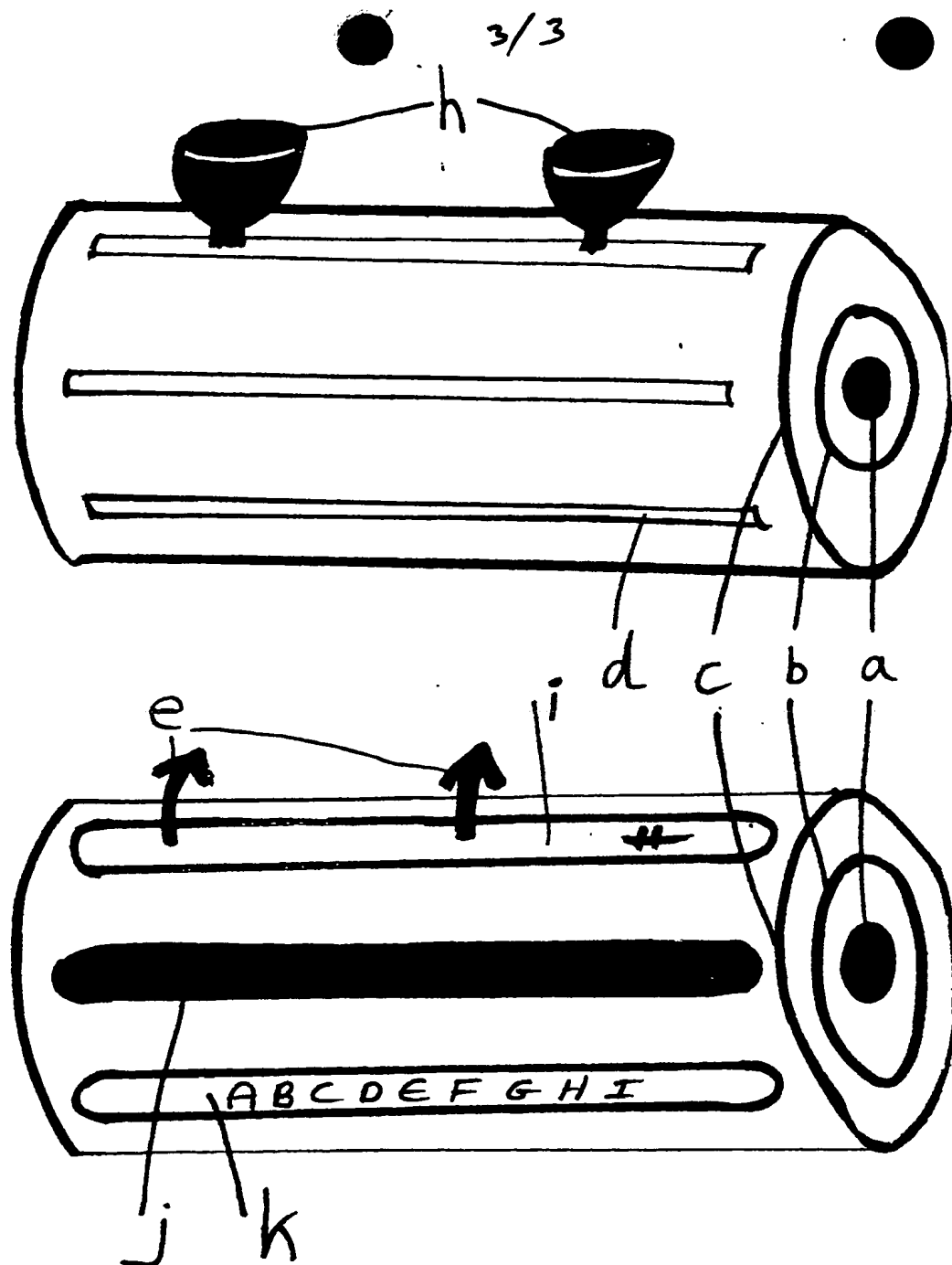


Figure 4

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